| Work Order I<br>January-15-14 1:10:                     |               |  |   | *111                           | 1462*                     |             |              |               |               |                  | Page 1               |
|---|---------------|--|---|--------------------------------|---------------------------|-------------|--------------|---------------|---------------|------------------|----------------------|
| Item ID: D34 Revision ID: Item Name: Lug                | 14-3          |  |   | Accept                         | *N900                     | <b>040</b>  | 100          | )*            | Setup Sta     | 17               | IS1*                 |
| Start Date: 1/15,<br>Required Date: 1/31,<br>Reference: |               | t Qty: 40.00<br>'d Qty: 40.00                | *40*<br>*40*                                    |                                | Cust Item II<br>Customer: | D:          |              |               |               | - ^IN            | IS2*                 |
| Approvals: Pro  |               | MCS  | Date: 14-01-16                                  | Tooling:<br>SPC (Y/N):         | Da                        |             |              | •             | Run Sta       | <b>^ \</b>       | IR1*<br>IR2*         |
| Sequence ID/<br>Work Center ID                          | Oper<br>Desci | ation<br>ription                             |   | Set Up/<br>Run Hours           | Tool ID                   | Tool #      | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.                |
| Draw Nbr  | Revision N    | Vbr  |   |                                |                           |             |              |               |               | - Trumber        |                      |
| D3414   | Rev C         |  |   |                                |                           |             |              |               |               |                  |                      |
| *100<br>*100*<br>Bandsaw<br>Jeaspa Bandsaw              |               | <b>Memo</b><br>Cut blanks:                   | 2.50" x 0.500" x 2.250" lon                     | 0.00<br>0.00                   |                           |             |              | 40            | Ø             |                  | <u>\$\$14</u> -01-26 |
| 110 <b>*110*</b> HAAS 1 HAAS CNC vertical machin        | ne #1         | <b>Memo</b><br>Machine as p<br>Identify as D | per Folio FA569 and Dwg D<br>3414-3Dwg Rev Foli | 0.00<br>0.00<br>3414<br>io Rev | \$14-01-1<br>FX 14        | 27<br>01/28 |              | 40            | <u>Ø</u>      |                  | ·<br>                |
| 120<br><b>*1                                    </b>    | QC2- I        | nspect parts off ma                          | achine FAI/FAIB                                 | 0.00                           | Bu o 2                    | _           |              | 40            | Ø             |                  |                      |

Quality Control

| DQA:                    |          |           | Date:       |        |             |                              |          |         |                   |           |            |                 | ``DART             |
|-------------------------|----------|-----------|-------------|--------|-------------|------------------------------|----------|---------|-------------------|-----------|------------|-----------------|--------------------|
| QA Closed:              |          |           | Date:       |        |             | WORK ORDER NON-              | -CC      | ONFO    | RMANCE / U        |           | Vork Order | update only     | AEROSPACE          |
| QA Closed.              |          |           | Date.       |        |             |                              | - 1      |         |                   |           |            |                 |                    |
| Work Orde               | r:       |           |             |        |             | DISPOSITION                  |          |         |                   | AGAINST D | PEPARTMEN  | T/PROCESS       |                    |
|                         | -        |           |             |        |             | Rework                       |          |         | Skid-tube         | Crosstube |            | Water Jet       | Engineering        |
| Part N                  | ο.       |           |             |        |             | Scrap                        |          |         | Machining         | Small Fab | P          | rod. Eng. Coor. | Quality            |
|                         | _        |           |             |        | <del></del> | Use-as-is                    |          | Thern   | noforming         | Finishing | Rec/St     | ore/Packaging   | Other              |
| NCR N                   | o        |           |             |        |             | Suspected Unapproved         |          |         | Large Fab         | Composite |            | Supplier        |                    |
|                         |          |           | ,           | •      |             |                              |          | L       |                   |           |            | ·               |                    |
| Root                    |          |           |             |        | Desc        | ription of work order update |          | nitial  |                   | tion      | Sign &     |                 |                    |
| Cause                   | _        | Date      | Step        | Qty    | ļ           | or non-conformance           | Ch       | ief Eng | Desci             | ription   | Date       | Verification    | QC Inspector       |
| Design                  | 4        |           |             |        |             |                              |          |         |                   |           |            |                 |                    |
| Doc/Data                | ᅴ        |           |             |        |             |                              |          |         |                   |           |            |                 |                    |
| Equip/Tooling           | $\dashv$ |           |             |        |             |                              |          |         |                   |           |            |                 |                    |
| Handling/Pre            | ႕        |           |             |        |             |                              |          |         |                   |           |            |                 |                    |
| Material                | $\dashv$ |           |             |        |             |                              |          |         |                   |           |            |                 |                    |
| Operator                | ᅱ        |           |             |        |             |                              |          |         |                   |           |            |                 |                    |
| Offset/Setup<br>Process | $\dashv$ |           |             |        |             |                              |          |         |                   |           | 1          |                 |                    |
| Supplier                | -        |           |             |        |             |                              |          |         |                   |           |            |                 |                    |
| Training                | T        |           | 1           |        |             |                              |          |         |                   |           |            |                 |                    |
| Transport               | $\neg$   |           |             |        |             |                              |          |         |                   |           |            | -               |                    |
| Unapproved              |          |           |             |        |             |                              | İ        |         |                   |           |            |                 |                    |
|                         |          |           |             |        |             |                              | FA       | ULT CA  | TEGORY            |           |            |                 |                    |
| Landir                  | ng G     | iear      |             |        |             | General                      |          | _       |                   | _         |            | _               |                    |
|                         |          | Bending   |             |        |             | Bend                         |          | Folio/f | Program           |           | Outside D  | imensions       | Pressure/Forced    |
|                         |          | Centre N  | ot Concer   | ntric  | L           | BOM/Route                    | L        | Grain   |                   |           | Over/Und   | er tolerance    | Set-up             |
|                         |          | Cracks    |             |        |             | Broken/Damage/Defect         |          | Hardwa  | are               |           | Part Incor | reci            | Temperature/Cure   |
|                         | $\dashv$ | Crimp/Ki  | nk/Ripple   | e/Wave |             | Burrs                        |          | 1       | ion Incomplete/U  |           | Part Lost/ | · · ·           | Weld               |
|                         | -        | Cuffs     |             |        | _           | Contamination                | _        | -1      | tions Incomplete/ | Unclear   | Part Move  | <u> </u>        | Wrong Stock Pulled |
| 1                       | -        | Crushing  |             |        | L           | Countersink                  | _        | 4       | gned/off center   | ļ.        | Positione  |                 | <b>-</b>           |
|                         | -        | Heat Trea |             |        | <u> </u>    | Cut Too Short                | <u> </u> | Mislab  |                   | Ł         | Power Los  | ss/Surge        | Other              |
|                         | -        | Inspectio |             | Tube   | <br>        | Drawing                      | $\vdash$ | Misrea  |                   |           |            |                 |                    |
|                         | —        | Marks/Cl  |             |        | $\vdash$    | Drill Holes                  | <b> </b> | Off-set |                   |           |            |                 |                    |
|                         | -        | Turning S |             |        | <u> </u>    | Finish                       |          | -∤      | Calibration       |           | _          |                 |                    |
|                         |          | Wave/Tv   | vist in Tul | be     | l_          | Fit/Function                 |          | Out of  | Sequence          |           |            |                 |                    |

| Work Ord January-15-14                      |                      | 1462                                 |             |                  | *11                  | 1462*                    |            |              |               |               |                  | Page 2         |               |
|---|----------------------|--------------------------------------|-------------|------------------|----------------------|--------------------------|------------|--------------|---------------|---------------|------------------|----------------|---------------|
| Item ID:<br>Revision ID:<br>Item Name:      | D3414-3              |                                      |             |                  | Accept               | *N900                    | <u>040</u> | 10           | <b>0*</b> s   | Setup Star    | 17               | S1*<br>S2*     | =             |
| Start Date:<br>Required Date:<br>Reference: | 1/15/14<br>: 1/31/14 | Start Qty: 40.00<br>Req'd Qty: 40.00 |             | *40*<br>*40*     |                      | Cust Item 1<br>Customer: | D:         |              |               |               | · IV             | 3/"            |               |
| Approvals:                                  | Process Plan         | n:                                   | Date:       |                  | Tooling:             | D:                       | ate:       | _            | R             | Run Stai      | ~1 <i>\</i> J    | R1*            |               |
|   | QC:                  |                                      | Date:       |                  | SPC (Y/N):           | D:                       | ate:       |              |               | Sto           | *N               | R2*            |               |
| Sequence ID/<br>Work Center II              | D                    | Operation Description                |             |                  | Set Up/<br>Run Hours | Tool ID                  | Tool #     | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp | <del></del> . |
| *120*<br>QC<br>Quality Control              |                      | QC8- Inspect parts - seco            | nd check    |                  | 0.00                 |                          |            |              | 40            |               | -                | <u> </u>       | 29            |
| 140   |                      | Identify as per dwg & Sto            | ock Locatio | on: <b>\$W</b> A | ©5 <u>0</u> 00       |                          |            |              |               | •             | ı                | ,              | DAS           |
| *140* Packaging Packaging                   |                      | Memo                                 |             | ·                | 0.00                 |                          | ·          |              | MOK           |               | 14-              | 1-29.          | 26<br>9-89    |
| 150   |                      | QC21- Final Inspection -             | Work Orde   | r Release        | 0.00                 |                          |            |              |               | ٠             | <i>.</i>         |                |               |
| *150*<br>oc                                 |                      | Memo                                 |             |                  | 0.00                 |                          |            |              | MU            | 5             | 1-01-3           | 0              |               |
| Quality Control                             |                      |                                      |             |                  |                      |                          |            |              | (M            | )لا٠٥١        | 1-7 Q            |                |               |

| DQA:          |          |           | Date:     |              |          |                              |               |         |                            |               |               |               |                                       |
|---------------|----------|-----------|-----------|--------------|----------|------------------------------|---------------|---------|----------------------------|---------------|---------------|---------------|---------------------------------------|
|               |          |           |           |              |          | <b>WORK ORDER NON</b>        | -CC           | ONFO    | RMANCE / UPDATE            |               |               |               | AEROSPACE                             |
| QA Closed:    |          |           | Date:     |              |          |                              |               |         |                            | W             | ork Order up  | date only     |                                       |
| Work Orde     | ır.      |           |           |              |          | DISPOSITION                  |               |         | AGA                        | INST DE       | PARTMENT      | /PROCESS      |                                       |
| WOIK OIU      | ٠١٠.     |           |           | <del> </del> |          | Rework                       | 1             |         | Skid-tube Cross            | tuba 🗀        | 7             | Water Jet     | Engineering                           |
| Part N        | J۵       |           |           |              |          | Scrap                        | ┨╏            |         | Machining Small            |               | Pro           | d. Eng. Coor. | Quality                               |
| 1 4101        | ••••     |           |           |              |          | Use-as-is                    | 1             |         | ~ <u>~</u>                 | hing          | 4             | re/Packaging  | Other                                 |
| NCR N         | lo.      |           |           |              |          | Suspected Unapproved         | 1             | 1110111 | Large Fab Compo            |               | 1             | Supplier      |                                       |
|               | •        |           |           |              |          |                              | 3             |         | •                          | <u> </u>      | J             |               |                                       |
| Root          |          |           |           |              | Desc     | ription of work order update |               | nitial  | Action                     |               | Sign &        |               |                                       |
| Cause         |          | Date      | Step      | Qty          |          | or non-conformance           | Ch            | ief Eng | Description                |               | Date          | Verification  | QC Inspector                          |
| Design        |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Doc/Data      |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Equip/Tooling |          |           |           |              |          |                              | İ             |         |                            | ,             |               |               |                                       |
| Handling/Pre  |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Material      | $\Box$   |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Operator      |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Offset/Setup  |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Process       |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Supplier      |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Training      |          |           |           |              |          |                              |               |         |                            |               |               | ·             |                                       |
| Transport     |          |           |           |              |          |                              |               |         |                            |               |               |               |                                       |
| Unapproved    |          | ···       | <u> </u>  |              |          |                              |               | U.T.CA  | FECORY                     |               |               | i             |                                       |
| l andi        |          | `         |           |              |          | General                      | FA            | ULI CA  | regory                     |               |               |               |                                       |
| Landi         |          | Bending   |           |              |          | Bend                         | $\overline{}$ |         | Program                    |               | Outside Dim   | onsions T     | Pressure/Forced                       |
|               |          | Centre No | nt Concer | ntric        | -        | BOM/Route                    | $\vdash$      | Grain   | Togram                     |               | Over/Under    | <b>⊢</b>      | Set-up                                |
|               | $\vdash$ | Cracks    | or concer | itiic        |          | Broken/Damage/Defect         |               | Hardwa  | ıro                        |               | Part Incorred | <del> </del>  | Temperature/Cure                      |
|               | _        | Crimp/Kir | nk/Rinnle | /Wave        |          | Burrs                        | $\vdash$      | 4       | ion Incomplete/Unqualified |               | Part Lost/Mi  | <u> </u>      | Weld                                  |
|               | -        | Cuffs     | по перес  | , wave       | <u> </u> | Contamination                | $\vdash$      | 1 '     | tions Incomplete/Unclear   | ' <b>-</b>    | Part Moved    | -             | Wrong Stock Pulled                    |
|               | $\vdash$ | Crushing  |           |              |          | Countersink                  | $\vdash$      | 4       | gned/off center            | } <del></del> | Positioned V  | ∟<br>Vrong    |                                       |
|               | Г        | Heat Trea | at        |              |          | Cut Too Short                |               | Mislabe |                            |               | Power Loss/   |               | Other                                 |
|               | 一        | Inspectio |           | Tube         |          | Drawing                      |               | Misrea  |                            |               | <b>_</b>      | , L           |                                       |
|               |          | Marks/Ch  | •         |              |          | Drill Holes                  |               | Off-set |                            |               | -             |               | · · · · · · · · · · · · · · · · · · · |
|               |          | Turning S |           |              |          | Finish                       |               | Out of  | Calibration                |               |               |               |                                       |
|               |          | Wave/Tw   |           |              |          | Fit/Function                 |               | Out of  | Sequence                   |               |               |               |                                       |

January-15-14 1:10:58 PM

Page 1

Work Order ID: Parent Item:

111462

D3414-3

Parent Item Name:

Lug

**Start Date: 1/15/14** 

Required Date: 1/31/14

**Start Qty: 40.00** 

8.000'

Required Qty: 40.00

Comments:

IPP A05.09.13New issueKJ/JLM

| Component Item ID/<br>Item Name | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty | Qty<br>Issued | Date<br>Issued | Status |
|---------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|--------------|---------------|----------------|--------|
| M304B0.500X2.500                | ,                      | Purchased     | No          |                     |                  | 100             |                    | 14.0000        | 0.1875      | 7.5          |               |                |        |
| 304 BAR .500 x 2.50             |                        | - 3101143004  |             |                     |                  |                 | •                  | 1 1.0000       | -           | 000,7.5      |               | 14-0           | 1-26   |
|                                 |                        |               |             | <b>Location</b>     |                  | Loc Oty         | Loc                | c Code         |             |              |               |                |        |
|                                 |                        |               |             | MAT049              |                  | 14              |                    |                |             |              |               |                |        |

14

119231

| Work Order:    Part No.  | DQA:         |          |                       | Date:              |       |          |                              |          |                   |                     |               |              |              | DA PT         |
|--|--------------|----------|-----------------------|--------------------|-------|----------|------------------------------|----------|-------------------|---------------------|---------------|--------------|--------------|---------------|
| Work Order:    Part No.  |              |          |                       |                    |       |          | <b>WORK ORDER NON-</b>       | -CC      | ONFO              | RMANCE / UPDATE     |               |              |              | AEROSPACE     |
| Skid-tube   Crosstube   Machining   Small Fab   Prod. Eng. Coor.   Quality   Recylore/ Suspected Unapproved   Suspected Unapproved   Large Fab   Composite   Sign & Verification   QC Inspector   Cause   Date   Step   Qty   Or non-conformance   Chief Eng   Description of work order update   Chief Eng   Description   Chief Eng   Description   QC Inspector   Quality   Qc   Chief Eng   Description   Qc Inspector   Qc   Chief Eng   Description   Qc   Chief Eng   Chief Eng   Descrip   | QA Closed:   |          |                       | Date:              |       |          |                              |          |                   |                     | W             | ork Order up | date only    |               |
| Part No.   | Work Orde    | ·r·      |                       |                    |       |          | DISPOSITION                  |          | 1                 | AGAINST             | DE            | PARTMENT     | PROCESS      | •             |
| Part No.   Scrap   Use as-sig   Suspected Unapproved   Thermoforming   Therm   | 1            | •        |                       |                    |       |          | Rework                       | ìÌ       |                   | Skid-tube Crosstube | Г             |              | Water Jet    | Engineering   |
| NCR No.  | Part N       | lo.      |                       |                    |       |          | — —                          |          |                   |                     | $\overline{}$ | Pro          | <del>}</del> |               |
| Root Cause Date Step Qty Description of work order update or non-conformance Chief Eng Description Date Verification QC Inspector  Design Doc/Data Equip/Tooling Adding/Pre Material Operator Offset/Setup Process Supplier Training I Description Description Inspector I Description Inspection Incomplete/Unqualified Instructions Incomplete/Unqualified Instr |              | •        |                       |                    |       |          | Use-as-is                    |          |                   | ·                   |               | Rec/Stor     | e/Packaging  | Other         |
| Cause Date Step Qty or non-conformance Chief Eng Description Date Verification QC Inspector  Design Doc/Data Englis/Tooling Handling/Pre Handling/Pr | NCR N        | lo.      |                       |                    |       |          | Suspected Unapproved         | ]        |                   | Large Fab Composite |               |              | Supplier     |               |
| Cause Date Step Qty or non-conformance Chief Eng Description Date Verification QC Inspector  Design Doc/Data Englis/Tooling Handling/Pre Handling/Pr | Post         |          |                       |                    |       | Dosc     | rintion of work order undate |          | nitial            | Action              |               | Sign &       |              |               |
| Design Doc/Data  |              |          | Date                  | Sten               | Otv   | Desci    | · ·                          | l        |                   |                     |               |              | Verification | OC Inspector  |
| Doc/Data   Equip/Tooling   Handling/Pre   Handling/ |              | $\dashv$ | Date                  | Step               | Qty   |          | or non comormance            | -        | iici Liig         | Description         |               | Dute         | Vermidation  | - Qo Moposto. |
| Equip/Tooling Handling/Pre Material Operator Ope | 1 1          | $\dashv$ |                       |                    |       |          |                              | ļ        |                   | ·                   |               |              |              |               |
| Handling/Pre Material Operator Offset/Setup  | 1            |          |                       |                    |       |          |                              | 1        |                   |                     |               |              |              |               |
| Material Operator Offset/Setup Process Supplier Training Transport Unapproved Description of Centre Not Concentric Cracks Broken/Damage/Defect Broken/Damage/Defect Inspection Incomplete/Unqualified Part Lost/Missing Weld Cuffs Crushing Crushing Contersink Misaligned/off center Description Tube Drawing Marks/Chatter Drill Holes Out of Calibration Out of  | 1 1          |          |                       |                    |       |          |                              |          |                   |                     |               |              |              |               |
| Offset/Setup Process Supplier Training Transport Unapproved Unapproved    Bending  | !            |          | :                     |                    |       |          |                              |          |                   |                     |               | :            |              |               |
| Process Supplier Training Transport Unapproved Unapprov | Operator     |          |                       |                    |       |          |                              |          |                   |                     |               |              |              |               |
| Supplier Training Transport Unapproved    Landing Gear   | Offset/Setup |          |                       |                    |       |          |                              |          |                   |                     |               |              |              |               |
| Training Transport Unapproved  | Process      |          |                       |                    |       |          |                              |          |                   |                     |               |              |              |               |
| Transport Unapproved   | Supplier     |          |                       |                    |       |          |                              |          |                   |                     |               |              |              |               |
| Landing Gear   General   Gentre Not Concentric   Broken/Damage/Defect   Burrs   Inspection Incomplete/Unqualified   Part Lost/Missing   Weld   Wrong Stock Pulled   Crushing   Countersink   Countersink   Cut Too Short   Inspection Strip in Tube   Drawing   Marks/Chatter   Turning Sequence   Finish   Out of Calibration   Outside Dimensions   Pressure/Forced   Over/Under tolerance   Set-up   Over/Under tolerance   Set-up   Part Incorrect   Temperature/Cure   Part Incorrect   Temperature/Cure   Part Lost/Missing   Weld   Wrong Stock Pulled   Part Moved   Wrong Stock Pulled   Power Loss/Surge   Other     | Training     |          | :                     |                    |       | Ì        |                              | ļ        |                   |                     |               | İ            |              |               |
| FAULT CATEGORY  Landing Gear  Bending Bend Centre Not Concentric Broken/Damage/Defect Crimp/Kink/Ripple/Wave Cuffs Crushing Crushing Heat Treat Inspection Strip in Tube Marks/Chatter Drawing Marks/Chatter Turning Sequence  General Folio/Program Folio/Program General Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Grain Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Grain Folio/Program Gover/Under tolerance Faut Incorrect Faut Incorrect Finish Folio/Program Gover/Under tolerance Faut Incorrect Faut Incorrect Finish Folio/Program Gover/Under tolerance Fout Incomplete/Unqualified Fart Incorrect Faut Incorrect Faut Incorrect Fout Incomplete/Unqualified For thouse/For Meld Wrong For Transport    |          |                       |                    |       |          |                              |          |                   |                     |               |              |              |               |
| Landing Gear  Bending Bending Bend Centre Not Concentric BOM/Route Broken/Damage/Defect Crimp/Kink/Ripple/Wave Cuffs Contamination Crushing Heat Treat Inspection Strip in Tube Marks/Chatter Turning Sequence Bend Folio/Program Outside Dimensions Pressure/Forced Grain Over/Under tolerance Set-up Part Incorrect Temperature/Cure Part Incorrect Temperature/Cure Part Moved Part Moved Wrong Stock Pulled Part Moved Power Loss/Surge Other Other Other Other Off-set Turning Sequence Finish Out of Calibration   | Unapproved   |          |                       |                    |       |          |                              | <u> </u> |                   |                     |               |              |              |               |
| Bending Bend Folio/Program Outside Dimensions Pressure/Forced Centre Not Concentric BOM/Route Grain Over/Under tolerance Set-up Cracks Broken/Damage/Defect Hardware Part Incorrect Temperature/Cure Crimp/Kink/Ripple/Wave Burrs Inspection Incomplete/Unqualified Instructions Incomplete/Unclear Part Lost/Missing Weld Cuffs Contamination Instructions Incomplete/Unclear Part Moved Wrong Stock Pulled Crushing Countersink Misaligned/off center Positioned Wrong Heat Treat Cut Too Short Mislabeled Power Loss/Surge Other Inspection Strip in Tube Drawing Misread Marks/Chatter Drill Holes Off-set Turning Sequence Finish Out of Calibration  |              |          |                       |                    |       |          |                              | FA       | ULT CA            | TEGORY              |               |              | <del> </del> |               |
| Centre Not Concentric BOM/Route Grain Over/Under tolerance Set-up Cracks Broken/Damage/Defect Hardware Part Incorrect Temperature/Cure Crimp/Kink/Ripple/Wave Burrs Inspection Incomplete/Unqualified Instructions Incomplete/Unclear Part Lost/Missing Weld Cuffs Contamination Instructions Incomplete/Unclear Part Moved Wrong Stock Pulled Crushing Countersink Misaligned/off center Positioned Wrong Heat Treat Cut Too Short Mislabeled Power Loss/Surge Other Inspection Strip in Tube Drawing Misread Marks/Chatter Drill Holes Off-set Turning Sequence Finish Out of Calibration  | Landi        |          | 1                     |                    |       |          |                              |          | 1 4               | _                   |               | 1            |              | 7             |
| Cracks Broken/Damage/Defect Hardware Part Incorrect Temperature/Cure Crimp/Kink/Ripple/Wave Burrs Inspection Incomplete/Unqualified Part Lost/Missing Weld Cuffs Contamination Instructions Incomplete/Unclear Part Moved Wrong Stock Pulled Crushing Countersink Misaligned/off center Positioned Wrong Heat Treat Cut Too Short Mislabeled Power Loss/Surge Other Inspection Strip in Tube Drawing Misread Marks/Chatter Drill Holes Off-set Turning Sequence Finish Out of Calibration  | <u> </u>     |          | _                     |                    |       |          |                              | $\vdash$ | 1                 | Program             |               | 4            | _            | <b>-</b>      |
| Crimp/Kink/Ripple/Wave Burrs Inspection Incomplete/Unqualified Part Lost/Missing Weld Cuffs Contamination Instructions Incomplete/Unclear Part Moved Wrong Stock Pulled Crushing Countersink Misaligned/off center Positioned Wrong Heat Treat Cut Too Short Mislabeled Power Loss/Surge Other Inspection Strip in Tube Drawing Misread Marks/Chatter Drill Holes Off-set Turning Sequence Finish Out of Calibration   |              |          |                       | ot Concer          | ntric | <u> </u> | -                            | <u> </u> | 4                 |                     | -             | 4            | <b> </b>     | <b>⊣</b>      |
| Cuffs Contamination Instructions Incomplete/Unclear Part Moved Wrong Stock Pulled Crushing Countersink Misaligned/off center Positioned Wrong Heat Treat Cut Too Short Mislabeled Power Loss/Surge Other Inspection Strip in Tube Drawing Misread Marks/Chatter Drill Holes Off-set Turning Sequence Finish Out of Calibration   |              |          | i                     |                    | 4     | _        | <b>1</b>                     | $\vdash$ | -                 |                     | $\vdash$      | -1           | -            | <b></b>       |
| Crushing Countersink Misaligned/off center Positioned Wrong Heat Treat Cut Too Short Mislabeled Power Loss/Surge Other Inspection Strip in Tube Drawing Misread Marks/Chatter Drill Holes Off-set Turning Sequence Finish Out of Calibration   |              |          | 1                     | nk/Ripple          | /Wave | <u> </u> |                              | -        | 1 '               |                     | $\vdash$      | 1            | issing       | ┥             |
| Heat Treat Cut Too Short Mislabeled Power Loss/Surge Other Inspection Strip in Tube Drawing Misread Marks/Chatter Drill Holes Off-set Turning Sequence Finish Out of Calibration   |              | -        | ł                     |                    |       | -        | 4                            | -        | 4                 | • •                 | $\vdash$      | -1           | L<br>Vrong   |               |
| Inspection Strip in Tube  Marks/Chatter Turning Sequence  Drawing Off-set Out of Calibration   |              |          | i -                   |                    |       | -        | 4                            | $\vdash$ | 4                 |                     | $\vdash$      | =            |              | Other         |
| Marks/Chatter Drill Holes Off-set Out of Calibration   |              | $\vdash$ | 1                     |                    | Tubo  | -        |                              | $\vdash$ | 4                 |                     | L             | Trower ross/ | onige [      | Tottlet       |
| Turning Sequence Finish Out of Calibration   |              | $\vdash$ | 1                     | •                  | iube  | $\vdash$ |                              | -        | 4                 |                     |               |              |              |               |
|  |              | $\vdash$ | 1                     |                    |       |          | 4                            | $\vdash$ | 4                 |                     |               |              |              |               |
| Wave/Twist in Tube   Fit/Function   Out of Sequence  |              | $\vdash$ | 4                     |                    |       |          | Fit/Function                 |          | 4                 |                     |               | -            |              | ·             |
| 1 http://www.tr.com.com.com.com.com.com.com.com.com.com  |              |          | Marks/Ch<br>Turning S | natter<br>Sequence |       |          | Drill Holes<br>Finish        |          | Off-set<br>Out of | :<br>Calibration    |               |              |              |               |

| DART AEROSPACE LTD           | Work Order:  | 111465      |
|------------------------------|--------------|-------------|
| Description: Lug             | Part Number: | D3414-3     |
| Inspection Dwg: D3414 Rev: C |              | Page 1 of 1 |

## FIRST ARTICLE INSPECTION CHECKLIST

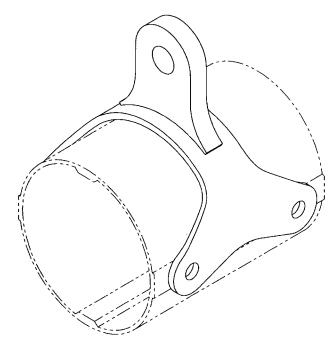
X First Article X Prototype

| Drawing<br>Dimension | Tolerance     | Actual<br>Dimension | Accept | Reject | Method of<br>Inspection | Comments      |
|----------------------|---------------|---------------------|--------|--------|-------------------------|---------------|
| Ø0.510               | +0.008/-0.001 | ,511                |        |        | gauge P                 | n             |
| 2.07                 | +/-0.030      | 2.068               | /      |        | SLO8                    | Vein          |
| 1.99                 | +/-0.030      | 1.985               | /      |        |                         |               |
| 1.30                 | +/-0.030      | 1.300               |        |        |                         |               |
| 1.12                 | +/-0.030      | 1.118               | /      |        |                         |               |
| 0.38                 | +/-0.030      | .375                | /      |        |                         |               |
| 0.060                | +/-0.010      | .060                | V      |        | V                       |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        | <u> </u>                |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         | 24 M 145 11.1 |
|                      |               |                     |        |        |                         | <u> </u>      |
| Live pt - Co         |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         |               |
|                      |               |                     |        |        |                         |               |

| Measured by: | \$       | Audited by: | JL      | Prototype Approval: | N/A |
|--------------|----------|-------------|---------|---------------------|-----|
| Date:        | 14-01-26 | Date:       | 14-1-29 | Date:               | N/A |

| Rev | Date     | Change          | Revised | by | Approved |
|-----|----------|-----------------|---------|----|----------|
| Α   | 09.09.14 | New Issue       | KJ      | ^  |          |
| В   | 09.11.12 | Dwg Rev updated | KJ      | *  |          |

| ITEM<br>No. | QTY.<br>-041 | PART NUMBER | DESCRIPTION  |
|-------------|--------------|-------------|--------------|
| 1           | х            | D3414-041   | LUG ASSEMBLY |
| 2           | 1            | D3414-1     | LUG BRACKET  |
| 3           | 1            | D3414-3     | LUG          |



D3414-041 LUG ASSEMBLY

D

NOTES:
1) MATERIAL: N/A
2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
4) UNITS: INCHES UNLESS OTHERWISE NOTED
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D3414-041" USING FINE POINT PERMANENT INK MARKER
7) WEIGHT: 0.52 lbs

111462 MP 14-01-16

| REV. |   |  | DESCRIPTION  | BY  | DATE     |
|------|---|--|--|-----|----------|
| Α    | NEW ISS   | SUE  |  | CP  | 05.03.16 |
| В    | STANDA<br>FLAT PA<br>PREVEN<br>REMOVE<br>OF MAN | RDS AND TRAN<br>TTERN FOR -1<br>IT FOULING AT<br>D FROM -1 (PA | 4 SOLIDWORKS WITH CURRENT<br>SPERED TO '8' SIZE BORDER.<br>INCREASED IN LENGTH TO<br>INSTI. (SEE PAR198), FLAT SPOTS<br>RT NOW 'U' SHAPED) FOR EASE<br>3 ADDED TOLERANCE TO 3.230<br>1 1.20. | AJS | 08.09.23 |
| c    | BREAK S<br>0.010-0.0                            | SHARP EDGES<br>30 (ZN A7-3)                                    | FOR -3 NOW 0.030-0.060 WAS   | CP  | 09.06.17 |

| DESIGN     | L dP | DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA |              |
|------------|------|--|--------------|
| DRAWN      | QP   |  |              |
| CHECKED    |      | DRAWING NO.                                    | REV. C       |
| MFG. APPR. | En   | TD3414   | SHEET 1 OF 3 |
| APPROVED   | W    | TITLE .  | SCALE        |
| DE APPR.   |      | LUG ASSEMBLY                                   | NTS          |
|            |      |  |              |

09.06.17

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